

The diagram illustrates a fluid control system, likely for a laboratory instrument. The system includes a main chamber (10) containing a sample (14). A pump (92) circulates fluid from a reservoir (100) through a density meter (26) and into the chamber. The fluid is then collected in a lower reservoir (38) and returned to the pump. A pressure regulator (76) and filter (84) are connected to the system via tubing (46). A control apparatus (30) is connected to the system to monitor and regulate the process. Key components and their labels include:

- 8**: Main inlet/outlet line.
- 42**: Inlet/outlet line to the chamber.
- 46**: Various tubing and lines throughout the system.
- 52**: Inlet/outlet line to the chamber.
- 64**: Upper gear assembly.
- 68**: Gears within the assemblies.
- 72**: Chain or belt connecting the gears.
- 56**: Inlet/outlet line to the chamber.
- 104**: Inlet/outlet line to the chamber.
- 60**: Lower gear assembly.
- 48**: Gears within the assembly.
- 112**: Small component near the lower gear assembly.
- 96**: Inlet/outlet line to the chamber.
- 34**: Two small circular components at the bottom of the chamber.
- 108**: Inlet/outlet line to the chamber.
- 100**: Reservoir for the pump.
- 92**: Pump.
- 46**: Line connecting the pump to the density meter.
- 26**: Density meter.
- 38**: Reservoir for the return line.
- 30**: Control apparatus.
- 76**: Pressure regulator.
- 84**: Filter.
- 88**: Valve or connector in the line between the filter and the chamber.